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Page 1 of 14 ATTY. DOCKET NO. 1875.1280001 APPLICATION NO. 10/085,071 FORM PTO-1449 APPLICANT Gopinathan et al. INFORMATION DISCLOSURE STATEMENT GROUP FILING DATE 2665 March 1, 2002 2662 U.S. PATENT DOCUMENTS EXAMINER CLASS FILING DATE DOCUMENT DATE NAME SUB-INITIAL NUMBER CLASS DH AA1 5,485,490 01/1996 Leung et al. DH AB1 5,650,954 07/1997 Minuhin DX AC1 5,757,857 05/1998 Buchwald /ED Dol AD1 5,881,108 03/1999 Herzberg et al. D'n 2003 AE1 5,996,415 12/1999 Stanke et al. AF1 Technology Center 2600 AG1 AH1 AI1 AJ1 AK1 FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT DATE COUNTRY CLASS SUB-TRANSLATION NUMBER CLASS Yes 1)# 25/03 AL1 0 483 439 A1 05/1992 EPO HO4L No ŊН Yes AM1 0 805 447 A2 11/1997 EPO G11B 20/10 No D# < Yes AN1 1 139 619 A1 10/2001 EPO HO4L 25/02 No ŊН Yes AQ1 WO 01/29991 A2 04/2001 PCT HO4B 10/00 No Yes Da AP1 WO 01/54317 A2 07/2001 PÇT 10/00 No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Agazzi, O. and Lenosky, T., "Algorithm to Postprocess Measured Data," IEEE DH AR 1 802. 3ae Equalization Ad Hoc Group, IEEE, January 10, 2001, 11 pages. Agazzi, O., "A Link Model for Equalized Optical Receivers," IEEE 802.3ae AS <u>1</u> Dat Equalization Ad Hoc Group, IEEE, March 11, 2001, 30 pages. Agazzi, O. et al., "DSP-Based Equalization for Optical Channels: Feasibility of a DH AΤ VLSI Implementation," IEEE 802.3ae, New Orleans, IEEE, September 12-14, 2000, 39 pages. EXAMINER DATE CONSIDERED 12-20-05 440 EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

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HOD-	AR	Agazzi O et al "Interim Observations on Multimode Ontical Channels " IEEE						
DH	AS		Agazzi, O. et al., "Measurements of DMD-Challenged Fibers at 3.125Gb/s," IEEE 802.3ae Equalization Ad Hoc, IEEE, January 10, 2001, 33 pages.					
DH	АТ		Agazzi, O. and Lenosky, T., "Measurement of Non-Stationarity of 10 Gb/s Multimode Fiber Links," <i>IEEE 802.3ae Equalization Ad Hoc</i> , IEEE, November 24, 2000, 5 pages.					
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DH	AS	<u>3</u>	Agazzi, 802.3, I	Agazzi, O. et al., "10 Gb/s PMD Using PAM-5 Trellis Coded Modulation," IEEE 802.3, IEEE, Alburquerque, March 6-10, 2000, 38 pages.						
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Ън	AR	<u>4</u>	Bingham, C Time Has C 11-14.	Bingham, J.A.C., "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come," <i>IEEE Communications Magazine</i> , IEEE, Vol. 28, No. 5, pages 5-8 and					
Ьq	AS	4	IEEE Jours	Chiddix, J. et al., "AM Video on Fiber in CATV Systems: Need and Implementation," IEEE Journal on Selected Areas in Communications, IEEE, Vol. 8, No. 7, September 1990, pages 1229-1239.					
Dar	AT	<u>4</u>	Distributi	Darcie, T., "Subcarrier Multiplexing for Lightwave Networks and Video Distribution Systems," <i>IEEE Journal on Selected Areas in Communications,</i> IEEE, Vol. 8, No. 7, September 1990, pages 1240-1248.					
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DH	AS	<u>5</u>	Bottleneck	Fettweis, G., "Parallel Viterbi Algorithm Implementation: Breaking the ACS-Bottleneck," <i>IEEE Transactions on Communications</i> , IEEE, Vol. 37, No. 8, August 1989, pages 785-790.						
DH	AT	<u>5</u>		Fornev, Jr., G.D., "The Viterbi Algorithm," <i>Proceedings of the IEEE</i> , IEEE, Vol 61, No. 3, March 1973, pages 268-278.						
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Ďн	AR	<u>6</u>	OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Frazier, H., "IEEE 802.3 Higher Speed Study Group," 10 Gig MII update, IEEE, Kauai, Hawaii, November 9, 1999, 24 pages.							
DЦ	AS	<u>6</u>	Giaretta, Fiber at	Giaretta, G. and Lenosky, T., "Adaptive Equalization of DMD Challenged Multimode Fiber at 1300 mm," <i>IEEE P802.3ae Plenary</i> , IEEE, March 11, 2001, 10 pages.						
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Isaacs, M et al., "Measurements of Fiber Responses at 5 Gb/s Data Rate Using DH 7 850nm VCSELs," IEEE 802. 3ae Equalization Ad Hoc, IEEE, March 11, 2001, 18 pages. Kanno, N. and Ito, K., "Fiber-Optic Subcarrier Multiplexing Video Transport Employing Multilevel QAM," IEEE Journal on Selected Areas in Communications, HO AS 7 IEEE, Vol. 8, No. 7, September 1990, pages 1313-1319. DH Kasper, B.L., "Equalization of Multimode Optical Fiber Systems," The Bell System Technical Journal, American Telephone and Telegraph Company, IEEE, Vol. 61, No. 7, September 1982, pages 1367-1388. AT 2

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Page B of 14

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

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0 H	AS	<u>8</u>	Lenosky, 802.3ae pages.	Lenosky, T., "A Unified Method of Calculating PMD-induced Pulse Broadening," <i>IEEE</i> 802.3ae Equalization Ad Hoc Meeting, IEEE, Tampa, Florida, November 5, 2000, 8 pages.					
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT

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bн	AS	<u>10</u>	Distribut	Olshansky, R. et al., "Subcarrier Multiplexed Lightwave Systems for Broadband Distribution," <i>IEEE Journal of Lightwave Technology</i> , IEEE, Vol. 7, No. 9, September 1989, pages 1329-1341.						
DH	АТ	<u>10</u>	Compensat	tte, S. and Rosenkranz, W., "A Decision Feedback Equalizer for Dispersion ompensation in High Speed Optical Transmission Systems," <i>International onference on Transparent Optical Networks</i> , IEEE, 1999, pages 19-22.						
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Ďн	AS	11	fiber at	Peral, E. et al., "Measurements of time variation in DMD-challenged multimode fiber at 1310nm for 10GE equalizer applications.," <i>IEEE P802.3ae Equalization Ad</i> Hoc, IEEE, March 2001, 19 pages.					
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Рн	AR	12	I," Bell 5	System Techni	iver Design for Digital Fik cal Journal, American Teler 1973, pages 843-874.	per Optic Co phone and Te	mmunicati legraph C	on Systems, ompany, Vol.		
DH	AS	<u>12</u>	Telecommun	Personick, S.D., "Receiver Design for Digital Optic Systems," National Telecommunications Conference, IEEE, Atlanta, Georgia, November 26-28, 1973, Vol. 1, pages 8E-1 - 8E-4.						
DH	АТ	12	Vorenkamp, Force, IEE	orenkamp, P. et al., "Analog Interface for 10-Gb/s Ethernet," <i>IEEE 802.3ae Task</i> orce, IEEE, March 2000, 13 pages.						
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INFORMATION DISCLOSURE STATEMENT

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APPLICANT Gopinathan et al.	

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0η	AS	13		Winters, J. et al., "Reducing the Effects of Transmission Impairments in Digital Fiber Optic Systems," <i>IEEE Communications Magazine</i> , IEEE, June 1993, pages 68-76.						
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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1875.1280001

APPLICATION NO. 10/085,071 Page 1 of 3

INVENTORS AGAZZI et al. FILING DATE

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DH AA1 5,396,224 03/1995 Dukes et al. DH AB1 5,550,546 08/1996 Noneman et al. DH AC1 5,554,945 09/1996 Lee et al. DH AD1 5,614,855 03/1997 Lee et al. DH AE1 5,703,905 12/1997 Langberg DH AF1 5,768,268 06/1998 Kline et al. DH AG1 5,822,143 10/1998 Cloke et al. DH AH1 5,881,107 03/1999 Termerinac et al. DH AH1 5,945,862 08/1999 Donnelly et al. DH AJ1 5,949,820 09/1999 Shih et al. DH AK1 5,966,415 10/1999 Bliss et al. EXAMINER DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATIO DH AM1 EP 0 515 074 11/1992 EP	INFO	RMATION	DISCLOSURE STATEM	ACINI.	March 1, 2002	260	55	
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Dally, W. and Poulton, J., "Transmitter Equalization for 4Gb/s Signalling,"

Proceedings of Hot Interconnects IV, Palo Alto, CA, 1996, 10 pages.

EXAMINER

DATE CONSIDERED 12-20-05

Conroy, C. et al., "An 8-b 85-MS/s Parallel Pipeline A/D Converter in 1-µm CMOS,"

IEEE Journal of Solid-State Circuits, IEEE, Vol. 28, No. 4, April 1993, pages

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Page 2 of 6

FORM PTO-1449

ATTY. DOCKET NO. 1875.1280001 APPLICATION NO. 10/085,071

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Gopinathan et al. FIRST SUPPLEMENTAL INFORMATION

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DH	TA	2	ADC Using	Cklund, J-E. and Gustafsson, F., "Digital Offset Compensation of Time-Interleaved IDC Using Random Chopper Sampling," <i>IEEE International Symposium on Circuits and Systems</i> , IEEE, May 28-31, 2000, pages II-447-450.						
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FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1875.1280001	APPLICATION NO. 10/085,071
APPLICANT Gopinathan et al.	
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HQ	AT	Jenq, Y-C., "Digital Spectra of Nonuniformity Sampled Signals: A Robust Sampling Time Offset Estimation Algorithm for Ultra High-Speed Waveform Digitizers Using Interleaving," Transactions on Instrumentation and Measurement, IEEE, Vol. 39, No. 1, February 1990, pages 71-75.						
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FORM PTO-1449

FIRST SUPPLEMENTAL INFORMATION

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AR	4	Mason, R. Converters	and Taylor, J	.T., "High-Speed Electro	o-Optic Anal	oque to Dic	gital DEE, 1993,
AS	<u>4</u>	Niewczas, P. et al., "Error Analysis of an Optical Current Transducer Operating with a Digital Signal Processing System," <i>IEEE Transactions on Instrumentation and Measurement</i> , IEEE, Vol. 49, No. 6, December 2000, pages 1254-1259.					
AT	4	in a Time-	Interleaved Wa	aveform Digitizer," <i>IEEE</i>	? Transactio	ns on Instr	Converters umentation
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FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1875.1280001	APPLICATION NO. 10/085,071
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	<u> </u>		OTHER (Inc	luding Author	Title, Date, Pertine	ent Pages, et	c.)		
DH	AR	<u>5</u>	Channels	Sauer-Greff, W. et al., "Maximum-Likelihood Sequence Estimation of Nonlinear Channels in High-Speed Optical Fiber Systems," April 6, 2001. Retrieved from the Internet: <url: <a="" href="http://www.ftw.at/Dokumente/010406a.pdf">http://www.ftw.at/Dokumente/010406a.pdf, 29 pages.</url:>					
PA	AS	<u>5</u>	Williamson, R.C. et al., "Effects of Crosstalk in Demulitplexers for Photonic Analog-to-Digital Converters," <i>Journal of Lightwave Technology</i> , IEEE, Vol. 19, No. 2, February 2001, pages 230-236.						
DH	AT	<u>s</u>	Yang, C-K., "Design Techniques for High-Speed Chip-to-Chip Links," Retrieved from the Internet: <url: 31="" 97578="" courses="" http:="" pages.<="" td="" topic5="" tutorial_seriallink.pdf,="" web.doe.carleton.ca=""></url:>						
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APPLICANT Gopinathan et al.	

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D9	AR	<u>6</u>	Converter	s in 0.25-μm C	erial-Link Transceiver MOS," <i>IEEE Journal of</i> pages 1684-1692.				
DН	AS	<u>6</u>	Zuoxi, T. Laser Opto 2082-2084	oacoustic Remot	ion of a Digital Multi te Sensing," <i>Proceedin</i>	beam Rec gs of IC	eiver E SP2000,	Based on IEEE, 2	TMS320C80 for 000, pages
	AT	<u>6</u>							
EXAMINER	l	<u> </u>	DUC	ffo		DATI	CONSI	DERED)	2-20-05